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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,678	01/12/2006	Mark Richard Jones	1263-001	8316
	7590 07/21/201 THENNISCH PC	EXAMINER		
29 W LAWREN SUITE 210	NCE ST	HARTMANN, GARY S		
PONTIAC, MI	48342		ART UNIT	PAPER NUMBER
			3671	
			MAIL DATE	DELIVERY MODE
			07/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/524,678	JONES, MARK RICHARD				
Office Action Summary	Examiner	Art Unit				
	Gary Hartmann	3671				
The MAILING DATE of this communication ap	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>09 </u>	March 2010					
	s action is non-final.					
·—		esecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	=x parto Quayro, 1000 0.5. 11, 10	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>33,34,36,40,41,53 and 59-65</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>33,34,36,40,41,53 and 59-65</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<u> </u>	o priority updor 25 LLS C S 110/o	(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Goo the attached detailed office deticities a list	of the defined depice flet receive	a.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5)	аіені Арріісатіоп				

#### **DETAILED ACTION**

## Specification

The disclosure is objected to because of the following informalities: the manner in which the amendment to the specification on 25 May 2007 was made makes it unclear if the heading to be inserted after paragraph 11 was intended to be a new paragraph or to replace paragraph 12.

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 63 and 64 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 63, the recitations of "is positioned" and "is used" appear to be process type recitations improperly recited in the product claim. The examiner suggests positively reciting structure which enables the processes to occur in order to present definite claims with clear scopes.

Regarding claim 64, the term "is moved" is a process type recitation improperly placed in a product claim. The examiner suggests replacing "moved" with "movable." The claim has been treated as --movable--.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 33, 34, 40, 41, 53 and 59-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver (U.S. Patent 3,625,489) in view of Wollner et al. (U.S. Patent 3,311,104), Edo (U.S. Patent 4,261,669), Goodhart et al. (U.S. Patent 6,659,684) and Damp et al. (U.S. Patent 4,601,605).

Weaver discloses an asphalt surface repair apparatus including a vehicle (12), a heater gas source (220), a pivotally mounted heater (30) and an asphalt source (274). Weaver teaches that the heater is that of Wollner, which is an infrared heater using hydrocarbons, but the hydrocarbons are not specified; thereby leaving the choice to one skilled in the art. Edo teaches that it is known to use liquid petroleum gas to fuel an infrared heater (column 4, lines 16-17). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used liquid petroleum gas as the fuel of Weaver/Wollner in order to obtain the heat as desired. Weaver does not teach the liquid source or dispenser; however, it is common in road repair to use a liquid source dispenser in order to rejuvenate an asphalt surface as desired. For example, Goodhart teaches such a system. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a liquid source and dispenser in order to optimally repair an asphaltic surface, as taught by Goodhart. Note that because the heater of Weaver is positioned on the rear of the vehicle, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to have positioned the liquid source ahead of the heater. Weaver also doesn't teach the sensor. Damp teaches adjusting the height based upon sensed temperatures. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a distance sensor with Weaver in order to control heating by the proximity of the heater to the surface, as taught by Damp.

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Regarding the heater blanket, Goodhart teaches using a heater blanket. Applicant's material is prior art and the thermal properties are well known to those skilled in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a blanket of the material as claimed in order to properly heat the pavement using a durable construction.

Regarding claims 40, 53 and 62, a controller is inherent. Position sensors which turn heaters off when unsafe movements occur are also well known (switches which stop the operation of microwave ovens when the door is opened, for example). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have utilized a position sensor in conjunction with the pivotable heater in order to, for example, prevent the heater from being turned on in the stowed position; thereby increasing safety.

Regarding claim 41 and further regarding claim 62, the cab of the vehicle is sufficient to meet recitations of "a storage compartment." Note that none of the additional elements are positive recited.

Regarding claims 60 and 63, the examiner takes official notice that it is well known to position a hot material source in proximity to another material to be heated in order to efficiently heat both materials. For this reason, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have positioned the Weaver/Goodhart as claimed.

Regarding claims 61 and 64, several of the parts which suspend the heater of Weaver are broadly within the scope of a "column."

Regarding claim 65, because use of equipment such that the surface to be repaired was actually damaged would be contrary to the purpose of the equipment, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have configured the heater as claimed.

Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Weaver/Wollner et al./Edo/Goodhart et al./Damp as applied above, and further in view of de Bruyne et al. (U.S. Patent 5,088,919).

De Bruyne teaches the claimed material in conjunction with infrared heaters. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have made the blanket of Goodhart et al. from the claimed material in order to obtain a blanket having a durable construction.

#### Conclusion

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary Hartmann whose telephone number is 571-272-6989. The examiner can normally be reached on Tuesday through Friday, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Will can be reached on 571-272-6998. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gary Hartmann/ Primary Examiner, Art Unit 3671